## **CLAIMS:**

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A local area network within a building for transporting data among a plurality of data units, the local area network comprising at least one wired segment and at least one non-wired segment, wherein said at least one wired segment includes:

- (a) at least one electrically-conducting line within the building, said electrically-conducting line having at least two conductors and operative to transport data communication signals;
- (b) at least two outlets, each operative for coupling to said electrically-conducting line; and
- (c) at least one wired modern coupled to said electrically-conducting line, operative to communicate over said electrically-conducting line;

and wherein said at least one non-wired segment is operative to communicating data without electrically-conducting media and includes at least one non-wired modem, wherein at least one of said outlets couples a wired segment to a non-wired segment, and wherein said at least one electrically-conducting line is furthermore operative for concurrently distributing a service other than the transport of data communication signals.

- 2. The local area network as in claim 1, wherein said service is included in a group containing telephone service, electrical power service, and cable television service.
- 3. The local area network as in claim 1, wherein at least one of said electrically-conducting lines is a telephone line and wherein at least one of said outlets is a telephone outlet.

- 4. The local area network as in claim 3, wherein said telephone line is furthermore operative to providing telephony service concurrently with data communications.
  - 5. The local area network as in claim 1, wherein at least one of said6. electrically-conducting lines is a power line and wherein at least one of said outlets is a power outlet.
    - 6. The local area network as in claim 5, wherein said power line is furthermore operative to carrying electrical power concurrently with data communications.
- 7. The local area network as in claim 1, wherein at least one of said electrically-conducting lines is a cable television line, and wherein at least one of said outlets is a cable television outlet.
  - 8. The local area network as in claim 7, wherein said cable television line is furthermore operative to carrying television signals concurrently with data communications.
  - 9. The local area network as in claim 1, wherein said non-wired segment is furthermore operative to communicating data by light.
  - 10. The local area network as in claim 9, wherein said light is infrared.
- 11. The local area network as in claim 1, wherein said non-wired segment is furthermore operative to communicating data by electromagnetic transmission.
  - 12. The local area network as in claim 11, wherein said electromagnetic transmission is radio-frequency transmission.



- 13. The local area network as in claim 1, wherein said non-wired segment is furthermore operative to communicating data by sound.
- 14. The local area network as in claim 13, wherein said sound is audible sound.
- 5 **15.** The local area network as in claim 13, wherein said sound is inaudible sound.

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- 16. The local area network as in claim 1, further comprising a module operative to coupling said wired segment to said non-wired segments.
- 17. The local area network as in claim 16, wherein said module is fully integrated within one of said outlets.
  - 18. The local area network as in claim 16, wherein said module is partially integrated within one of said outlets.
  - 19. The local area network as in claim 16, wherein said module is externally coupled to one of said outlets.

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- 20. A kit for upgrading existing wiring of a building to support a local area network having at least one wired segment and at least one non-wired segment, the kit comprising:
  - (a) an outlet for coupling to the non-wired segment; and
  - (b) an adapter module for coupling said outlet to the existing wiring, wherein said adapter module contains:
    - i) at least one wired modem operative for transporting data communication signals over the existing wiring, and
    - ii) at least one non-wired modem operative to transporting data communication signals without an electrically-conducting medium.

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- 21. The kit as in claim 20, wherein said adapter module is further operative to data handling and protocol converting.
- 22. The kit as in claim 20, wherein said adapter module is integrated within said outlet.
- 5 23. The kit as in claim 20, wherein said adapter module is partially integrated within said outlet.
  - 24. The kit as in claim 20, wherein said wired modem is a telephone-line modem and said outlet is a telephone outlet.
  - 25. The kit as in claim 20, wherein said wired modem is a power-line modem and said outlet is a power outlet.
    - 26. The kit as in claim 20, wherein said wired modem is a cable television-line modem and said outlet is a cable television outlet.
    - An adapter module for use in upgrading existing wiring of a building so as to support a local area network having at least one wired segment and at least one non-wired segment coupled to an outlet, the adapter module coupling said outlet to the existing wiring and comprising:
      - i) at least one wired modem operative for transporting data communication signals over the existing wiring, and
      - ii) at least one non-wired modem operative to transporting data communication signals without an electrically-conducting medium.
    - 28. The adapter module as in claim 27, being further operative to data handling and protocol converting.
  - 29. The adapter module as in claim 27, being fully integrated within said outlet.

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- 30. The adapter module as in claim 27, being partially integrated within said outlet.
- 31. The adapter module as in claim 27, wherein said wired modem is a telephone-line modem and said outlet is a telephone outlet.
- 5 **32.** The adapter module as in claim 27, wherein said wired modem is a power-line modem and said outlet is a power outlet.
  - 33. The adapter module as in claim 27, wherein said wired modem is a cable television-line modem and said outlet is a cable television outlet.
  - 34. An outlet for use in upgrading existing wiring of a building so as to support a local area network having at least one wired segment and at least one non-wired segment, the outlet comprising:
    - (a) a first coupler for coupling the outlet to the at least one non-wired segment,
    - (b) a second coupler for coupling the outlet to the existing wiring via an adapter module, comprising:
      - i) at least one wired modem operative for transporting data communication signals over the existing wiring, and
      - ii) at least one non-wired modem operative to transporting data communication signals without an electrically-conducting medium.
  - 35. The outlet as in claim 34, being fully integrated with the adapter module.
  - 36. The outlet as in claim 34, being partially integrated with the adapter module.

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A method for upgrading existing wiring within a building to support a network for transporting data communication signals, the network having a wired segment and a non-wired segment, the method comprising the steps of:

- (a) providing a wired modem;
  - (b) providing a non-wired modem;
  - (c) providing an adapter operative for handling data communication signals between the wired segment and the non-wired segment;
  - (d) providing an outlet; and
  - (e) equipping said outlet with said wired modem, said non-wired modem, and said adapter.

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